

From owner-qrp-1@netcom.com Sun Nov 27 19:57:16 1994
Date: Tue, 22 Nov 1994 16:42:08 -0500
From: bjnw@scaletta.East.Sun.COM (Bruce Walker - Sun Parallel Open Systems)
Message-Id: <9411222142.AA07297@scaletta.East.Sun.COM>
Subject: *Please* stop voting!!

Please, everyone, stop voting about "for sale" items over the list!
If only 1/4 of the members of the list send in a vote, we will all
get well over 100 mail messages about that alone! If someone wants
to conduct a poll, that person should actively remind people that
they should respond only to the conductor of the poll, and that he/she
will summarize the results later.

Just to throw in a little QRP...as I said before (though I haven't seen
that message hit the list yet), I rejoined the list last week only
to find lots of active discussion about the 30-40, which I had finally
begun to build just before I rejoined. Last night it passed the smoke
test, and I tuned up the VFO using a freq counter on the mixer input.
I had only done 28 turns (hadn't read all the revised suggestions on the
list then!) on L1, so I ended up rewinding it with 29 turns of #26 wire.
That put me at about 10.146 (1.955 VFO), and I got it down to 10.100
by squeezing some turns (which is possible with #26 wire). Maybe I'll
get it in a box tonight...I didn't have a headphone jack last night, so
I quit without listening to it.

Still waiting for my Sierra!

--bruce WT1M

From owner-qrp-1@netcom.com Sun Nov 27 11:36:39 1994
Message-Id: <199411242339.SAA17993@thor.INS.CWRU.Edu>
From: Stephen Trier <sct@po.cwru.edu>
Date: 24 Nov 1994 23:39:00 GMT
Subject: 2 successes and one, er, not-yet-success

Gang,

I've been working on building more gear, with two successes and one
not-yet-a-success. First I built a crystal calibrator using a variation
on the design in the 1993 ARRL handbook. I used LSTTL logic and a
slightly different circuit, but it boils down to the same idea. It
works well and was very useful as I built the next project...

..A SUDDEN for 40m, purchased from Kanga US. It went together quickly
and works well. The only glitch was that it took me a while to figure
out which section of the tuning capacitor to use. I've been listening
in on 40m CW many of the past nights. To go with the SUDDEN, I returned

to the W1FB _Notebook_ series and tried to build...

..the single-transistor 7MHz transmitter from _W1FB's Design Notebook_, page 151. It works, and I can't knock that, but I get only 5-10 mW of output. I _think_ it's a schematic error, but I'm still trying to analyze it to figure out how it's supposed to work.

This is a long shot, but has anyone on the list tried to build one of these? What did you have to do to make it work?

Stephen

--

Stephen Trier "[W]hen you've got Ethernet running to your desktop,
sct@po.cwru.edu you don't want to talk to people."
KG8IH - jacobs@eek.student.cwru.edu, on ham radio at CWRU

From owner-qrp-1@netcom.com Sun Nov 27 18:58:47 1994
Date: 25 Nov 94 18:14:22 EST
From: Craig LaBarge <74740.3166@compuserve.com>
Subject: 2-Way 40-40 QSO
Message-Id: <941125231421_74740.3166_EHB154-1@CompuServe.COM>

I was playing around with my 40-40 this morning and heard a station calling CQ near 7.040 MHz. I wound up having my first 2-way 40-40 QSO with KA1TQM (Tom) in North Stonington, CT. Band conditions were a little noisy and we encountered some QRO "tuner-uppers", but we were able to chew the rag for quite a while.

The more I use this little rig, the more impressed I am with the receiver. It's actually a bit quieter than a MFJ 9040 I have. (I might have to look into that...)

Has anyone tried the 20 Meter version?

Craig WB3GCK
DAH-DAH-DIDDLEY-DIT DIDDLEY-DIT-DAH-DAH

From owner-qrp-1@netcom.com Sun Nov 27 23:49:07 1994
From: JEVERHART@cayman.vf.ge.com
Date: Wed, 23 Nov 1994 13:50:07 -0500 (EST)
Message-Id: <941123135007.2160ba1f@cayman.vf.ge.com>
Subject: Re:4 sale/hw Cap

Is it happening again?

As others have noted sporadically (Mike, WA8MCQ, for one) messages seem to be erratically delivered sometimes. Mos recently, I seem to not have gotten a message concerning "4 sale on QRP", although I've seen several replies to it in the last two days. Similarly, I got Mike Czuhajewski's reply to the HW8 cap yesterday, and the request for info today (and the latter was time-stamped on 11-21, I believe). Where'd they go?

To the best of my knowledge, it's also been at least a month since any of the messages I've sent disappeared into the great message sink in the sky.

I seem to have gotten about the normal volume of qrp-l stuff the last few days with these few deletions. What's happening? Anybody else lose things?

On the for sale issue, I have no objection to the kind of postings I've seen in the last few months from individuals and clubs with QRP-related stuff. So long as the transaction is done via individual e-mail as opposed to list responses, this is beneficial to the community.

72,

Joe E. N2CX

From owner-qrp-l@netcom.com Sun Nov 27 08:12:13 1994
From: NYOUNG@nova.wright.edu
Date: Tue, 22 Nov 1994 20:08:35 -0400 (EDT)
Subject: Re: 450 ohm ladder line
Message-Id: <01HJSJ2DQ0JC8WW4HL@nova.wright.edu>

Back in the bad old days when I lived in a neighborhood full of noisy hayseeds, I had a wonderful antenna set up. Since all service to the house was buried cable (ah, such quiet), I put up a 45 ft tower and held it up with 6 ton aircraft cable that got hooked to that neat white spacer ladder line that people actually used to sell at hamfests. I had a neat little lightning arrestor.

Basically, it was two automotive spark plugs screwed into one of those cast aluminum boxes with a gasket around the lid. The box was lashed to the tower with clamps and a chunk of L-bracket and there was a chunk of braided battery cable (lahk offa Kenworth, y'knowwhaddahmean, verne) that went to the 6 ft ground stake what was runned into the vampire what lived thar befformme. I never took a lightning hit, but I sure felt a lot better about that antenna taking it than me or the house or the radios.

And yes, I had a big ceramic knife switch that connected the open wire feeder (it came into the shack through huge ceramic marine feedthrough insulators) to the rest of the antenna hoses.

Don't ask me why I moved from there to this dump. I'm here now and I have about as much desire to put up another tower as I do to breath my last in this joint. I ask myself "Why put up a tower when it'd just fall across cars in the bank parking lot or run into the power lines that cut across my side yard on their way to the house behind mine.

I think I need an Elavil moment.

73

Nils

WB8IJN &c

"Too much is always better than not enough."

J.R. "Bob" Dobbs

From owner-qrp-l@netcom.com Sun Nov 27 23:33:43 1994
Date: Sat, 26 Nov 94 22:29:24 CST
From: msdooley@collie.aud.alcatel.com (Michael S. Dooley)
Message-Id: <9411270429.AA17237@collie.aud.alcatel.com>
Subject: 4sale question and Dummy

Resistors that haven't undegone surgery... I believe your previous posting\ related that the surgery was performed with a large blnt instrument? [whew]
B-)

Mike KE4PC

From owner-qrp-l@netcom.com Sun Nov 27 06:59:16 1994
From: ka8yql@barf80.nshore.org (David Freeman)
Subject: <didn't bother with a subject>
Message-Id: <k428Vc1w165w@barf80.nshore.org>
Date: Tue, 22 Nov 94 21:29:19 EST

JOIN QRP

David Freeman
InterNet: ka8yql@barf80.nshore.org
Basic Amateur Radio Frequency, BARF-80 +1 216/237-8208
"Totally devoted to Amateur Radio" - 24 Hrs a day 8/N/1 14.4k-300 baud

From owner-qrp-l@netcom.com Sun Nov 27 18:46:51 1994
From: K7YHA@aol.com
Date: Thu, 24 Nov 1994 21:50:03 -0500
Message-Id: <941124215002_6659913@aol.com>
Subject: ARRL-SS

HI Gang:

Gave out a few QSOs during SS last Sunday. Ran the TS-130V and TH7 on 20-15-10 meters. Over half of my contacts asked me if I was REALLY running QRP! The signal reports ranged from 59 to +20dB!

I worked only one other rQRP station in SS. It was a KC4 in NFL. He was a solid +40dB here in NEPA. I asked him what he was running and he replied 5 watts to a set of stacked 5 element monobanders at 60 and 90 feet! What a signal!

QRP works. Next weekend I'm going to wring the TH7 out in the CQ WW DX CW test. I need a few new countries.

72 rich

From owner-qrp-l@netcom.com Sun Nov 27 21:20:20 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: Re: ARRL-SS
Date: Sun, 27 Nov 94 18:51:05 EST5EDT
Message-Id: <1994Nov27.185105.5062@wb3ffv.ampr.org>

Re the last comment of your recent posting which started out with "QRP works!"--no, QRP does NOT work--see the latest QST, correspondence section; people do not like to work our little, tiny, puny signals buried down in the mud and QRM and QSB and QRN. (Doesn't seem to bother most people if they don't know it's a QRP signal, but let them know that one they're straining to hear is only running 10 milliwatts and watch all Place-of-Eternal-Punishment-in-One-Religion break loose! Funny how these people will strain thru the mud for hours on end looking for a new state, county, country, island, whatever, and then spend a half hour trying to pull them out of the mud when they appear.) I'm hoping QST gets a number of rebuttals to that letter, which is very similar in tone to one someone else had several months back. I know they'll get mine, for sure! 73 and Queue Our Pea DE WA8MCQ
--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Sun Nov 27 07:56:15 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: Re: Back to Dummy Loads...
Date: Tue, 22 Nov 94 23:02:01 EST5EDT
Message-Id: <1994Nov22.230201.488@wb3ffv.ampr.org>

You mentioned buying from a friend on the QRP list--that's another reason I cast my vote for YES; being a relatively small group, with a lot of people who post on a regular basis, there is a certain amount of

trust that may not be present when posting something to r.r.swap; we're a family, a close knit group of friends, a Cheers, etc. 73 and Queue
Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-1@netcom.com Sun Nov 27 06:07:29 1994
Date: Wed, 23 Nov 1994 09:30:31 -0500 (EST)
From: wynn c c <wyn@stc06.CTD.ORNL.GOV>
Subject: CD4xxx CHEAP KEYS
Message-Id: <Pine.OSF.3.91.941123085600.16112A-1000000@stc06.CTD.ORNL.GOV>

I received several requests for the info. plus some comments that the chips are readily available and all less than \$4.00. So, I'm putting the info. in electronic form. I can put the layout and logic diagram in dxf, iges, gif, eps, etc. but it is too complicated for ascii art.

Is there an anon/guest ftp site that can post the files for us? There used to be but things have changed with the move to netcom.com.

Does anyone have a good router program that can convert the perf-board construction to a single or double sided PC board?

72/73,
Clay, N4AOX
wyn@ornl.gov

From owner-qrp-1@netcom.com Sun Nov 27 23:05:43 1994
From: NYOUNG@nova.wright.edu
Date: Sat, 26 Nov 1994 10:51:23 -0400 (EDT)
Subject: December QRPP
Message-Id: <01HJXKTB0NYC8WWBNM@nova.wright.edu>

It's been over 10 years since my father left the living, and almost as long that I've been laboriously (and probably insanely) recollecting the remains of his print shop. Boy am I glad that I did!

The December issue of QRPP arrived all pretty, wrapped up in the little plastic mailer and all that. But I had to rely on my experience in printing, collating and binding to get it in a readable state. Pages 23 through 50 were (a) upside down and (b) folded backwards. It took me a pressman's second to figure it out. And lucky for me I have the saddle stitcher to put it all back together. Only problem was the schematic on the center spread. I think I'll have to excise it from the

signature and find a way to fasten it inside without creasing the stuff on the other side.

So, what'd I get? Another copy of an excellent little magazine about a lot of stuff that I'll probably be drooling and slobbering over for another 3 months. Man, this is great! Nicely printed, too. And one more thing: If you think that I'm angry or some other nonsense about having to redo my copy so that I could read it, your dead wrong. I actually love the stuff. If I hadn't had to rebind this issue, I wouldn't have gone out to the printery for another 3 months.

So now I'm off to grade more papers. (Yeah, right.)

73

Nils

WB8IJN &c

"Now junior, you know how we feel about people who can't suppress their food barks."

From owner-qrp-l@netcom.com Mon Nov 28 00:09:42 1994

Date: Sun, 27 Nov 94 17:27:36 -0600

From: adams@chuck.dallas.sgi.com (chuck adams)

Message-Id: <9411272327.AA04468@chuck.dallas.sgi.com>

Subject: December QST '94

Gang,

In looking through the latest QST, looks like this group hit the jackpot and QRP in general.

1. Page 11, the famous Jeff Gold, et.al. made it in with photos of the famous expedition to the state park, which Jeff kept us informed of earlier in the year. I thought you guys were digging through the brush with machettes (sp?) and OFF to ward off mosquitos. :-)
And Jeff, what is that thing in your hand? Is that what they call a microphone? :-) Joke guys, a joke. Don't flame me on that one. :-)
2. Interesting article on switching diodes on page 38.
3. Page 43, a simple, general-purpose AF amplifier for 1W of audio using the LM380.
4. Page 64, "QSL Cards?" by Chester S. Bowles, AA1EX. You remember him as the contest coordinator for the famous Sept 17 NE-QRP Club QRP Afield Field day. Good article
on QSL cards and something that QRPers should be real good at doing, considering

how much more effort we put into our QSOs with the low power and fight with other

QRM/QRN/QRL? stuff that goes on around us.

5. Page 72, the famous Robert Capon, WA3ULH, who is much younger than I imagined at 36.

Got that last tidbit from the QRZ DX CDROM. :-) Still can't tell for sure if he

is left handed. Can't read the writing on the baseball cap to see if they (QST)

put the photo in correctly. I was going to use the word right, but that would have

been a pun. :-)

Good idea for a "Walking Stick Antenna" and article for same.

Guess the race is on to see how many articles we can get published in QST. :-)

Keep up the good work gang.

dit dit

FYI only.

SIG

Chuck Adams K5FO CP-60

adams@sgi.com

From owner-qrp-1@netcom.com Sun Nov 27 02:34:11 1994

From: mont@netcom.com (Mont Pierce)

Message-Id: <199411270628.WAA12654@netcom9.netcom.com>

Subject: End the "for sale" poll

Date: Sat, 26 Nov 1994 22:28:27 -0800 (PST)

Ok Folks, I think we've seen enough votes to concluded that the group is in favor to forsale posts as long as it's qrp relate and doesn't get out of hand like tripling the quantity of mail. The past history of the list also reflects this opinion.

So let's end the poll and save the traffic for more interesting traffic like qrp discussions and real forsale postings.

72,
km6wt

--

Mont Pierce

```
+-----+
| Ham Call: KM6WT           Internet:  mont@netcom.com      |
|   bands: 80/40/20/15/10/2 |
|   modes: cw,ssb,fm       |
+-----+
```

From owner-qrp-l@netcom.com Sun Nov 27 08:03:01 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: FOR SALE on QRP-L
Date: Wed, 23 Nov 94 12:33:59 EST5EDT
Message-Id: <1994Nov23.123359.768@wb3ffv.ampr.org>

I'm not the official Keepr of Records or anything, but for the benefit of people on the mailing list who don't get everything that goes on it (the system seems to eat a lot of things), there have been quite a few responses on the topic of FOR SALE being posted here, and the vote is overwhelmingly FOR, with the qualification that it be QRP related; and as someone pointed out, there haven't been any abuses yet. (Remember, being a mailing list and not a newsgroup has the advantage of being smaller, closer knit, more of a community, etc; we seem to have a pretty high class user base here.) 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Mon Nov 28 00:05:58 1994
From: NYOUNG@nova.wright.edu
Date: Sun, 27 Nov 1994 19:51:27 -0400 (EDT)
Subject: Forgotten questions
Message-Id: <01HJZHVF840I8WWE2S@nova.wright.edu>

Jeg glemte aa spoerre om det er en aktive QRP klub i Norden.
For noen dager siden fikk jeg et brev fra Jan Martin (LA8AK)
og han sagte at det var ikke saaden klubb i Norge. Kanskje
i Sverige eller Danmark, eh? (Og, naturligvis, om klubben har
et tidsskrift, hvormeget koster abonnementen...)

73 og lykke til

Nils

WB8IJN &c

(for the monolingual Anglos: I forgot to ask if there was an
active QRP club in Scandinavia. I got a letter a few days back
from Jan Martin and he said there was no such club in Norway.
Maybe in Sweden or Denmark, eh? -- and if they have a magazine,

how much does the sub cost?

Now, do I have to put this in Esperanto? Do I need this for the final? How many points off do you count for spelling? Arghhh!)

From owner-qrp-l@netcom.com Sun Nov 27 08:22:00 1994

From: JimN00CT@aol.com

Date: Wed, 23 Nov 1994 01:50:08 -0500

Message-Id: <941123011841_5510213@aol.com>

Subject: Re: Fox Hunt

Excellent QRP ears out there tonight:

AB50U

K9MWM

WW7Y

K06KA

W0DSW

KD6ZMT, twice-on each frequency

N4AOX

WB4TP

and NN9K on 160 for a special test.

Good job all.

72, Bob KI0G

Listened up in the novice band from 0230-0300 and down in the general portion 0300-, and never head the fox. Heard lots of stuff 250+ miles out, but not much closer in. BTW, what's your QTH?

74, Jim n0oct

From owner-qrp-l@netcom.com Sun Nov 27 19:27:50 1994

From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)

Subject: Re: Fox Hunt

Date: Sun, 27 Nov 94 16:42:15 EST5EDT

Message-Id: <1994Nov27.164215.482@wb3ffv.ampr.org>

Thanks for the Fox Report. Sounds like fun; I've been following it on the QRP list for some time now. How about someone writing up an article on it for the QRP Quarterly and e-mailing it to me? I'll massage it and get it into print. Should be interesting reading, and I'm sure a lot of the other QRPers out there would be interested. 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhaiewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhaiewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-1@netcom.com Sun Nov 27 19:34:01 1994
Date: Tue, 22 Nov 1994 18:08:57 -0800 (PST)
From: Andrew Volokitin <avolokit@sparta.sjsu.edu>
Subject: Good Books to get for QRP
Message-Id: <Pine.3.89.9411221819.A7148-0100000@sparta.SJSU.EDU>

I've been scanning the library on campus, and found quite a few books on
IC's, circuits & the ARRL handbooks (not current though!! }:])...
(bad pun... I know, but hey, I'm working on very lil sleep...)

Well... can anyone recommend any good books on QRP design, and anything
else on QRP... I think ARRL has some books on QRP, but I haven't heard
much about them... (QRP Classics I believe?!?)

I also remember when I intro'ed myself one of ya sent me a msg telling me
to get some books by one author, but I can't find that msg...

Well... thanks for any input,

new QRP'er
-- Andy

Andrew Volokitin avolokit@sparta.sjsu.edu
San Jose State University
San Jose, California

SJSU HPV 1994-1995 Team Member
Email Coordinator
///\\///\\///\\///\\///\\///\\///\\///\\///\\///\\///\\
cq cq cq de kc6tbo kc6tbo kc6tbo k
TIP#297 -- Paint'em ALL, let the ref sort'em out!!
=====

From owner-qrp-1@netcom.com Sun Nov 27 22:15:53 1994
From: KevinN8XEE@aol.com
Date: Sun, 27 Nov 1994 20:07:54 -0500
Message-Id: <941127200751_8209573@aol.com>
Subject: hacksaw paddle update

Hello to all. Hope your holiday was pleasing. Has anyone had any success

with the hacksaw paddle yet? I have a couple of updates I thought I would throw out.

This weekend I built another paddle, but this time I used the metal "spine" from an old pendaflex file folder instead of a hacksaw blade. It's a little easier to work with, and you don't have to remove any old paint, or try to grind down the teeth. This spine has about the same amount of flex (only slightly stiffer) as a blade.

I usually cut off the tips of paint stirrer sticks to form the paddle itself. You can also use a couple of large, triangular guitar picks, available at just about any music store. If you use these picks, make sure you use heavy or extra-heavy gauge, as the thinner picks flex too much.

These picks will also give your paddle a real "Bencher" look. Maybe we should call it a "picnic Bencher" (hi).

Hope you have fun with this. If anyone runs in to any problems, leave me a message, and I'll try to help.

72/3,
Kevin
N8XEE

From owner-qrp-l@netcom.com Sun Nov 27 21:35:22 1994
Date: Thu, 24 Nov 1994 16:06:23 +0000
From: david@rmit.edu.au (David Taylor)
Subject: inductors for audio filters (long)
Message-Id: <01HJV39V1X2A8WW7JJ@pitvax.xx.rmit.edu.au>

John, K0JD replied to my post to QRP-L on inductors for audio filters:

>Just out of curiosity, David, what did you end up with to get into the
>100 mH range? Remember, toroids probably would pick up less hum
>than the Toko items.

Firstly, I must state that minimum cost has been an important criterion!

The toroid cores came off a board from an obsolete MUX and were used for filtering noise on serial lines - all I know about them has been gleaned by experiment and reference to formulae in the ARRL Handbook. They are 30mm (1.25inch OD) and appear to be ferrite, with an A1 value of approx 480. I believe this is the permeability range used for noise filtering - similar cores from Amidon (closest is type 43 mix) have a useable frequency range of 10kHz to 1MHz.

I started by winding 250 turns on one and testing it in a resonant circuit with an audio generator and CRO. It was about 28mH and appeared to have

lousy Q in the audio range (determined by the broad resonance peak). I attributed this to the ferrite mix not being suitable and put it aside for a while.

Remembering that 'Q' is related to the inductive reactance divided by the DC resistance and that the inductance is related to the square of the number of turns - it occurred to me that doubling the number of turns would double the resistance but quadruple the inductive reactance giving a higher 'Q'.

Increasing the number of turns to 450 resulted in an inductance of approx. 100mH with *much* better 'Q' in the audio range indicated by a very sharp resonance peak. Calculated values for 100mH inductors at 1kHz are Q=63 for the handwound toroid and Q=9 for the Toko. Hence my question about what would happen to the filter response shape.

The opinion (thanks Kent and Rick) is that the filter would have lower attenuation in the passband but would be more critical of element values, have more ripple and quicker phase changes with frequency. However the inductors can be padded with resistors to lower the Q to the designed values.

>Don't know about the Q; definitely the lower resistance will cut the loss.
>
> > The filter is a 7th order elliptical low pass filter with f.cutoff of
> > 850Hz and minimum stopband attenuation of 70dB intended for CW
> > reception.

I assembled the filter using junkbox capacitors - some were 5% tolerance and some were 20% greencaps. Listening tests proved that it worked with a steep slope at cutoff, but the cutoff frequency was too low, around 650Hz. Suspecting the loose tolerance greencaps I replaced each with a smaller value. Needless to say the filter now has a very sloppy set of components, but the cutoff frequency is now 800Hz. I will obtain a set of 10% caps by the weekend, and may later mailorder a closer tolerance set.

How does the R2 sound with the CW filter - excellent! Switching from the 3kHz SSB filter to the CW filter I notice that band noise and interference drop away to leave the signal standing out. It is so sharp that SSB is completely unintelligible when it is switched in.

Finally, the idea of winding 500 turns on a small toroid was daunting at first, but with a jig to grip the core and a small shuttle to hold the wire I found it to be easy. My jig consisted of a pair of terminal crimping pliers with a rubber band wrapped around the handle clamped to a bracket, in turn clamped to a table. With the core held in the narrow jaws it took maybe 2 hours to wind an inductor. I wound them 'scrambled Pi' style, where I wound 100 scramble turns on a small area, then advanced around the core

for the next 100 turns - 5 of these gave the required number.

>Anyone want a repost of the filter, ask David or me.

I second that!

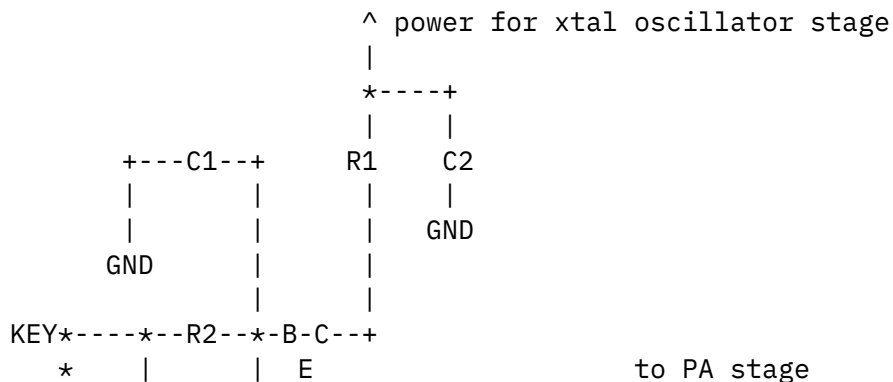
David Taylor
Computer Centre
RMIT (Bundoora Campus)
Melbourne, Australia
Amateur Radio: VK3JKP
Internet: david@rmit.edu.au

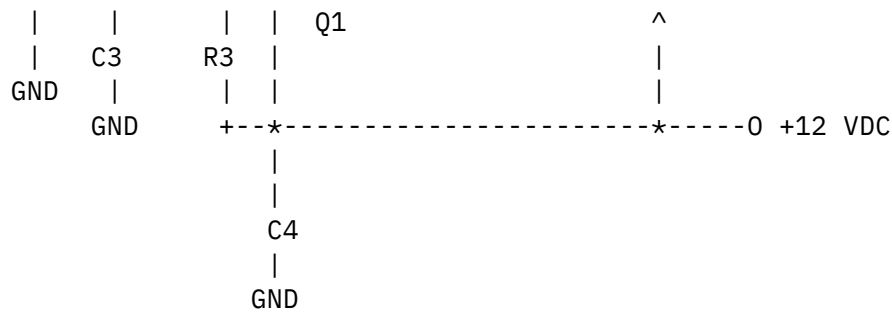
From owner-qrp-l@netcom.com Sun Nov 27 23:56:17 1994
Date: Sat, 26 Nov 94 21:04:15 HST
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Message-Id: <9411270704.AA04055@kahuna.math.hawaii.edu>
Subject: Key Clicks?

I typed up the following for Stephen but thought other's might be interested, too, if they're having trouble with those nasty key clicks.

Jeff NH6IL

The following from from Doug DeMaw's QRP NOTEBOOK; it is the Key Switch for a 4 transistor xtal 1W xmtr (the three other transistors are 2N2222A's).





R1 27 ohms
 R2 4.7 K
 R3 10 K
 C1, C2, C4 .1 uF
 C3 .47 uF
 Q1 2N3906

``The keying transistor, Q1, conducts when the key is closed, thereby routing dc to the oscillator. When the key is open, Q1 cuts off to stop the flow of dc. The RC network in the base leg of Q1 shapes the CW characters to prevent clicks. Softer keying will result if a larger capacitance is used in place of the .47 uF capacitor indicated. A hand key, bug, or electronic keyer can be used with Q1. The keyer must be set for positive keying circuits.''

From owner-qrp-l@netcom.com Sun Nov 27 18:50:41 1994
 From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
 Subject: Re KeyCAD for schematics
 Date: Fri, 25 Nov 94 22:00:11 EST5EDT
 Message-Id: <1994Nov25.220011.5799@wb3ffv.ampr.org>

I happened to go to a WalMart today and stumble through the computer/electronics section, and saw KeyCAD there (along with some of the other software put out by the same folks). This particular time I only saw the Windows version, which is somewhat more expensive than the DOS version I have, but still under \$30. As I've said before, this is a good, inexpensive program for drawing things, including schematics, for those of you who submit things to QRP journals, or who have to redraw handdrawn schematics for those same QRP mags. That makes two well known places where I've seen it now, WalMart and Office Depot. You can see some of the results in the October QRP Quarterly in the Idea Exchange, and in recent issues of QRPp from NorCal, where some of the schematics were done with it. (In fact, Doug Hendricks is the one who turned me onto it, for which I am deeply grateful.) 73 and Queue
 Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Mon Nov 28 01:40:51 1994
From: JEVERHART@cayman.vf.ge.com
Date: Sun, 27 Nov 1994 22:59:26 -0500 (EST)
Message-Id: <941127225926.216168c5@cayman.vf.ge.com>
Subject: Re: KeyCad for schematics

Yes,
KeyCad looks like a very good package for schematics.

I'd been looking for a reasonably priced CAD package when I saw Mike's recommendation for KeyCad. I found it at several places locally (South Jersey). The first was computer megastore CompUSA, home of the snotty clerk. When I asked if they carried same, he disdainfully said "Oh yes, in the LOW proced software area." (I guess he was miffed because he doesn't get a commission on software that is reasonably priced as opposed to the King's Ransome name brand stuff.) The stuff wasn't priced so I asked how much it was. He replied something like "They'll tell you up front when they ring it up!" I politely told him what he could do with it and went down the road to a Staples office stationary store where they had both the Windows and DOS versions clearly marked at under \$30.00.

Care top guess where I'll go next time?

BTW, and most relevantly, (Nils is that a word?) KeyCad can import and export graphics in several different file formats. It might be very useful for us cheap-software-on-the-pc-clone types to read some of the archived graphics generated by the QRP gang. Have to try it when I get some time.

72,

Joe E. N2CX

From owner-qrp-l@netcom.com Mon Nov 28 01:15:01 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: Laurel, MD area QRPers?
Date: Sun, 27 Nov 94 22:54:39 EST5EDT
Message-Id: <1994Nov27.225439.10985@wb3ffv.ampr.org>

What the heck...if someone in Houston can do this, so can I: Are there any other QRPers on the mailing list in the Laurel, MD area? Such as Washington DC, northern VA, Balto, etc. (I KNOW for a fact you ARE out there...) Would anyone like to have some sort of informal gathering

some time? Nothing formal, total anarchy only. 73 and Queue Our Pea
DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-1@netcom.com Sun Nov 27 19:48:32 1994
From: KELL@mpac.jsc.nasa.gov
Date: Wed, 23 Nov 1994 8:27:11 -0600 (CST)
Message-Id: <941123082711.175@mpac.jsc.nasa.gov>
Subject: Looking for Houston QRPers.

A T T E N T I O N

All QRPers living in the Houston area

(Others can ignore this if they want,
kind of me what?? :))

I found out that there is at least ONE other QRPPer in our fair city. Are there any others? If there are, would there be any interest in having a VERY informal get together on an occasional basis to talk about QRP, show off our latest rigs, tell fish stories, etc.? No dues, no club, no newsletter, no obligation (except to have an enjoyable time). No questions as to what is the Houston area, if in doubt, you are too far away. Meeting place and time by future mutual agreement.

We want to keep this very informal, I am not an organization type, and the other guy says that he is orged out.

Reply as you see fit.

72

Ted Kell@mpac.jsc.nasa.gov
KC5CUW/AA

From owner-qrp-1@netcom.com Sun Nov 27 07:51:38 1994
Date: Wed, 23 Nov 1994 09:32:29 -0800 (PST)
From: Monte Stark <msswmod@sage.unr.edu>
Subject: MFJ 9040 For Sale
Message-Id: <Pine.SUN.3.90.941123092759.5294D-100000@nimbus>

I think my last post fell into the internet black

hole so here goes again.....

MFJ 9040

Caps and instructions from MFJ to cure the drift.

First \$125 including shipping and COD.

Reply via E-Mail to mswmod@sage.unr.edu

or

Call me at Work (702) 677-3148

Home (702) 674-6425

73's, Ron

.....KU7Y.....
.....Monte "Ron" Stark.....
.....Sun Valley, Nevada.....
.....NRA LIFE.....

From owner-qrp-1@netcom.com Sun Nov 27 11:42:47 1994

From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)

Subject: MILLIWATT waiting list

Date: Thu, 24 Nov 94 15:30:46 EST5EDT

Message-Id: <1994Nov24.153046.27186@wb3ffv.ampr.org>

Bill has the extra copies for the waiting list in hand. I told 19 people that they were on the waiting list; I later sent them all e-mail telling them to 1) send a check since we were having a few more printed up and 2) send me e-mail to tell me the check was on the way so I could reserve their copy. As of Thanksgiving day, over a week after I sent the mail, I have received 11 checks and 7 people never responded with e-mail. If I don't get e-mail and/or checks from them by Tuesday I will release their reserved copies to the general public. I just sent out a batch of e-mails to those whose checks I received: Vince Ferme, Pete Beedlow, R E O'Connell, Ray Anderson, Dave Mensing, Bill Kennerly, Mont Pierce, James Norris, Rick Spanbauer, Dave Feldman, Mike Dooley. These people are on the list I just sent to Bill to ship copies to. For every check which I do not receive from others on the mailing list by Tuesday, another copy will be available to the general public. I'll put out the call soon when I have a few more copies of The Milliwatt (National Journal of QRPp) to let go. (For newcomers to this topic, it was THE pioneering QRP publication in the world, co-founded by WØRSP, Ade Weiss, and myself (with him doing 99.95% of the work, especially after I wimped out and joined USAF so I wouldn't get drafted and go to Viet Nam! Hey, at least I helped out for 4 issues...). Running six issues per year from 1970--1975, it contains a wealth of QRP info, operating and technical and philosophy and encouragement; those were the exciting days of QRP when everyone was

discovering that 1) they were not the only people out there doing this and 2) you really COULD do tremendous things with QRP! For \$22 you get 180 sheets of 8.5 X 11" paper with photocopied Milliwatt pages on both sides (360 pages total), postpaid in US/Canada (\$11 extra for air mail to DX). Checks must be made out to me, Michael A. Czuhajewski. Send no money now; I'll make the announcement in a few days for the extremely few remaining copies. This is a ***nonprofit*** operation, with proceeds to be given to regional QRP club(s) of our own choosing (don't bother to send applications to be chosen!). 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Sun Nov 27 19:34:17 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: Re: MILLIWATT waiting list
Date: Sun, 27 Nov 94 17:28:09 EST5EDT
Message-Id: <1994Nov27.172809.1632@wb3ffv.ampr.org>

Sorry, there is no more waiting list. Due to lack of response from several people who were on the waiting list, I have decided to throw all remaining copies (8 to 12 or so) to the general public, first-check-received, first serve. After enough checks are received to pay for the remaining copies, all further checks received will have VOID written on them and be returned. No further reservations will be accepted by e-mail--I've had to chase after far too many people who expressed interest and then failed to follow through, or who said the check was in the mail, then e-mailed much later to say it really was in the mail. (Not singling out any one person, since there were MANY who fell in that category!)

LAST CALL FOR MILLIWATT REPRINTS--

The 8 or so remaining copies are available to anyone who wants them; no reservations will be accepted via e-mail (except for DX stations, for whom snail mail is very slow). The first few checks received at 7945 Citadel Drive, Severn, MD 21144, will receive copies. The rest will be returned, and I will put a note on the net when they are all gone. Price is \$22 postpaid in US/Canada (\$11 extra for DX airmail).

73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA

Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Sun Nov 27 06:09:26 1994
From: JimN00CT@aol.com
Date: Wed, 23 Nov 1994 01:50:17 -0500
Message-Id: <941123011907_5510362@aol.com>
Subject: Re: MORE CHEAP KEYERS

Clay, N4AOX writes:

...comments deleted...

> Still works great. I guess the chips are now obsolete. If anyone has
> a good source or wants to convert the logic to other CMOS series, I
> would be glad to mail out the construction info.

>
> one 4011 quad 2-input NAND |
> two 4081 quad 2-input AND |
> one 4013 dual D-type Flip-Flop | may be hard to find now.
> one 4024 7 stage binary counter |
> one 4071 quad 2-input OR |
> one 4001 quad 2-input NOR |

....comments deleted....

The 4000 series CMOS logic is still alive and well. National,
Panasonic and Harris are some of the people still producing this
logic family. The total cost of the above 4000 series CMOS chips comes to
about \$3.42 according to the Digikey catalog!

73 de Ray WB6TPU

I missed the first part of this message--would like to know the source of
this circuit/construction project. Sounds interesting!

73, Jim n0oct

From owner-qrp-l@netcom.com Sun Nov 27 19:07:04 1994
Date: Sat, 26 Nov 1994 10:20:12 -0500
Message-Id: <199411261520.AA28040@yfn2.ysu.edu>
From: ah301@yfn.ysu.edu (Jerry Sy)
Subject: my first qrp cw contact!

I finally got my longwire antenna up on a tree last turkey day then called CQ! a reply right away from my first call! N1RZK from MA (I am located in Pittsburgh, PA).

Amazing what 5 watts can do.

my rig is 40m OHR Spirit, MFJ tuner and 100 ft wire from window to a tree.

73s de jerry N3RKD

From owner-qrp-1@netcom.com Mon Nov 28 00:08:45 1994
Date: Sun, 27 Nov 94 18:22:46 CST
From: msdooley@collie.aud.alcatel.com (Michael S. Dooley)
Message-Id: <9411280022.AA17506@collie.aud.alcatel.com>
Subject: my first qrp cw contact!

Jerry,

Congratulations on your first contact! By the way, while my QRP rig is the one shown in the November QST, I also use an MFJ tiner and 100 ft long wire. Works good! And you're right... it is amazing what a few watts and so8 inMe wire will do!

Mike KE4PC

From owner-qrp-1@netcom.com Mon Nov 28 01:12:15 1994
Date: Sun, 27 Nov 1994 22:43:28 -0500 (EST)
From: Jim Stafford-W4Q0 <w4qo@america.net>
Subject: NE 40-40
Message-Id: <Pine.SV4.3.91.941127224058.27325A-1000000@atl11.america.net>

I somehow got bumped off the list for a week or so. I think it was because I changed my name to Jim from James on my local server, at least that's all I can think it might have been.

Anyway, is there an NE 40-80? I know that the NE 40-30 was listed in the QST article, but I had thought there was an 80 meter version.

73, Jim, W4Q0

From owner-qrp-1@netcom.com Sun Nov 27 06:10:04 1994
Message-Id: <9411231445.AA19439@emsr1.emsr.att.com>
From: meh@cbsms1.cb.att.com (m.e.hartwell)
Date: 23 Nov 1994 9:22 EST
Subject: NE40-40

Hello all

Recently I had asked the question concerning standoffs and thought I would relate to you all what I have settled on using. I was rummaging through some old boxes of junk parts and came across a paper bag of some screws and stuff. I found a lot of replacement screws for eia connectors, can't remember why I ordered them but have them here, they have a screw shaft with nuts and washers all included and accept a screw on the other end. These are the ones on PC's that always come loose when you remove a cable and then can't tighten the cable back up when you relocate the printer or modem on you desk. Any way the circuit board is raised off the bottom of the case about a quarter of an inch. I suppose if I needed more space I could put two or three of these screwed together. Some people responded with ideas for either insulated or not insulated standoffs, and I appreciate the responses. I had wondered if there were standard standoffs available from the closest Radio Shack but that doesn't seem to be the case or at least people aren't using that as a source.

I have the NE40-40 assembled now and need to finish with the visual check out, then a power up and alignment, then into the case and finial alignment. Now that is the plan and you all know how plans go and how that will work. I fully expect to have to spend lots of time on getting this working, it never fails.

On the subject of keyers for kits that Chuck had mentioned. I have a HW7 with an old Accu-keyer built in, with the audio filter from MFJ from a long time ago, works good, the HW7 has some other mods to it also, the relay was taken out and a quite mercury on put in its place. There is one draw back to the mercury relay is that they key if turned up side down, but I don't use the rig in the upside down position. I think I will get out the HW7 and put in on the air this weekend.

Now another question. Does anyone remember the old Heathkit novice rig HW16? Was that all solid state? I think it was, now could that be made into a qrp rig, under 5 watts out. HMMMMMMMMMMMM

Marty kd8bj

From owner-qrp-l@netcom.com Sun Nov 27 11:25:16 1994
Message-Id: <199411271518.KAA05598@thor.INS.CWRU.Edu>
From: Stephen Trier <sct@po.cwru.edu>
Date: 27 Nov 1994 15:18:35 GMT
Subject: Re: NE40-40

m.e.hartwell writes:

> I had wondered if there were standard standoffs available
> from the closest Radio Shack but that doesn't seem to be the case or
> at least people aren't using that as a source.

Yes, Radio Shack does have standoff kits. Look for part number 276-195A, in the blue section. (I know that only because I leaned over to grab the pack that is sitting on my workbench...) They are \$1.39(?) for four standoffs and eight screws.

RS also has little packages of spacers next to their packs of screws and nuts. These are the unthreaded-aluminum-tube kind. The package has two of each size. I'm not sure how one is supposed to mount a four-cornered board with two standoffs!

Stephen

--

Stephen Trier
sct@po.cwru.edu
KG8IH

From owner-qrp-l@netcom.com Sun Nov 27 16:12:25 1994
Message-Id: <199411271821.LAA06855@news.primenet.com>
Date: Sun, 27 Nov 1994 11:20:39 -0700
From: klotts@PrimeNet.Com (Ken Lotts)
Subject: Re: NE40-40

At 09:22 AM 11/23/94 EST, m.e.hartwell wrote:

> Now another question. Does anyone remember the old Heathkit
> novice rig HW16? Was that all solid state? I think it was, now could
> that be made into a qrp rig, under 5 watts out. HMMMMMMMMMMMM
>
> Marty kd8bj
>

Marty, I believe the hw16 was Sweep Tube xmt..

I suppose you could modify it and take the power from the final driver perhaps.. (Mind you, I don't have a schematic in front of me).. Another thing about the hw16 (as I recall) is that it was rock bound on the xmt side.. It had provisions for an external vfo.. The rcvr was really so-so.. I only used one once.. I had the seperate component version that preceded it.. (we are talking *years* ago here - hi) Was great (at age 16 - HI) but when I finally bought a Drake r4c, I got spoiled overnight! A good receiver makes a ham station soooooooooo much nicer!

Ken aa7jc

From owner-qrp-l@netcom.com Sun Nov 27 19:34:16 1994
Date: Sun, 27 Nov 1994 16:42:56 -0500
From: stv@world.std.com (Steve L Pitts)
Message-Id: <199411272142.AA11783@world.std.com>
Subject: NE40-40

Well, after what felt like an eternity, the postman delivered the NE40-40 kit to my door Saturday. The quality of this kit is impressive, more than worth the cost that Dave Benson is asking. I spent all of four hours on construction Saturday, I have about another hour to get to the alignment phase. This board went together unbelievably smooth.

I am really looking forward to getting this little rig on the air. I have been following comments of other builders avidly and am in hopes that the performance of my rig will be as good as what other folks have reported.

Well, back to the bench....

Steve Pitts, KC7FII
stv@world.std.com
71045,563
Steve Pitts KC7FII, stv@world.std.com

From owner-qrp-l@netcom.com Sun Nov 27 23:43:34 1994
Date: Sun, 27 Nov 1994 06:59:34 -0600 (CST)
From: Bob Howle <bhowle@freud.inst.com>
Subject: Re: NE40-40
Message-Id: <Pine.SOL.3.90.941127065533.24173A-100000@freud>

On 23 Nov 1994, m.e.hartwell wrote:

> Now another question. Does anyone remember the old Heathkit
> novice rig HW16? Was that all solid state? I think it was, now could
> that be made into a qrp rig, under 5 watts out. HMMMMMMMMMMMM
>
> Marty kd8bj

the HW-16 used tubes and you also needed the
externat HG-10 vfo

Heath did have a solid state novice cw rig at one point

but I can't remember the model number - as I recall the
specs were close to those of the Century 21

Bob / WA4ZID

From owner-qrp-1@netcom.com Sun Nov 27 19:42:54 1994
Date: Tue, 22 Nov 1994 15:30:43 -0800 (PST)
From: Stephen Lee <slee@u.washington.edu>
Subject: Re: NE5514
Message-Id: <Pine.A32.3.91b.941122150840.68980A-100000@homer01.u.washington.edu>

The NE5514 comes in 3 flavors:

- NE5514D (16-pin plastic surface mount),
- NE5514F (14-pin ceramic dual inline package)
- NE5514N (14-pin plastic dual inline package)

The temperature range on all three variants is 0 to +70 degrees C.

There is a milspec version of both DIP packages which has a
temperature range of -55 to +125 degrees C. These are the
SE5514F and the SE5514N.

This is a Philips parts...use to be known as Signetics but is now
a part of Philips. It is a quad high performance operational
amplifier. It is only made by Philips.

Ralph, by your email address I assume you are affiliated with
a university. I would recommend you call one of the following places
and request a sample of whichever variant you need. They will, in
turn, contact the manufacturer's rep who will forward a sample to
you.

Arrow Electronics
14320 NE 21st St
Bellevue, WA 98007
1-800-777-2776

Anthem Electronics
19017 120th Ave. NE
Bothell, WA 98011
(206) 483-1700

Hamilton Hallmark
1175 Bordeaux Drive
Sunnyvale, CA 94089
1-800-332-8638

Marshall Industries
1715 North Coal Creek Pkwy So.
Bothell, WA 98011
1-800-522-0084

Wyle Laboratories
15385 NE 90th St.
Redmond, WA 98052
(206) 881-1150

Hope that answers your question!

73's

Stephen Lee

KC7AVB/AG

From owner-qrp-l@netcom.com Sun Nov 27 23:31:25 1994

From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)

Subject: New subscribers coming!

Date: Sat, 26 Nov 94 13:04:32 EST5EDT

Message-Id: <1994Nov26.130432.3509@wb3ffv.ampr.org>

Sorry if anyone already mentioned this and I overlooked it, but the December 1994 QST had the 4th installment on their series about the Internet. Among other things, this one covered USENET, and in a sidebar they gave a list of mailing lists people could subscribe to, and QRP-L was right there in the middle of it! We should see some new folks arriving shortly. There will also be a short article in the next issue of the QRP Quarterly on the QRP list, which may generate a few more new folks. (BTW, I just saw two of my posts arrive today, four days after I sent them out. Far from a record...) There was also a letter in the general correspondence section with the same general tone as one several months ago, paraphrasing--you QRPers have all the fun because you pass all the work onto someone else by making them put up with puny signals. I certainly hope this letter generates a lot of responses! By the way, this is the same issue of QST that has a picture of Jeff Gold up front in the color section. 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org

E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org

The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA

Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Sun Nov 27 21:55:39 1994

Date: Thu, 24 Nov 1994 23:40:00 +0200 (EET)

From: "Arjen Raateland, VYH/vet, puh. 90-4028 350" <Arjen.Raateland@vyh.fi>

Subject: OHR Spirit problems

Message-Id: <01HJVJ9TT50294E951@vyh22.vyh.fi>

I have some problems with my QRP Spirit 80 m. I hope to extract some pieces of advice from others who know the QRP Spirit before attempting to solve the problems. I called OHR today, but I guess there is a holiday in the US. It is indeed very quiet on this list at the moment.

Building the kit was quite nice, but now that everything is all neatly wired and fixed, I don't very much enjoy the idea of taking it apart several times to try fixes that may not work.

I hope my post is not too long, but I try not to be vague.

1. (Maximum) VFO output on C20 is only about 0.63 Vpp instead of the 1 Vpp the instructions call for. This was measured with a PACO AV-1 RF probe which has a single crystal (Ge-)diode rectifier and a VTVM. The transmitter puts out some 5 Watts as it should and I haven't been able to detect any deafness of the RX compared to another RX, either. So it doesn't look all that bad....

2. In a location 25 miles from a 500 kW MW transmitter on 747 kHz with a 12 m long antenna connected to the Spirit, the RX suffered from breakthrough of the very strong MW signal. There was a lot of din all over the band and also a carrier with recognizable modulation on at least one frequency within 3.5-3.6 MHz.

Would it be likely that this condition is aggravated by the low mixer injection (see above)?

3. I noticed that according to the circuit diagram of the VFO section R35 (1k0hm) passes about 10 mA DC through L4 of the VFO bandpass filter. I would think this rather strange. R35 loads L4 // C31 and this is probably intentional, but the 10 mA DC is a waste and also can't do any good to the magnetic properties of L4. Can anybody explain what the reason might be or should I change R35 to be in parallel with L4?

The VFO output circuit matches the BP filter output to a low impedance (50 Ohms) for the mixers. I can't find any wrong components (I checked most components with a meter before putting them on the board and I had no mix-ups at all). At the input of this amplifier circuit the RF voltage is higher than at the output. Also the collector of Q5 carries a lot more RF than the output.

According to the literature, the proper injection level for a DBM is + 5 dBm to + 10 dBm. At 50 Ohms this translates into more than 1.12 Vpp. So I feel I should try to get more injection to the mixer, but is there a tried and proven way to get it right with this particular VFO circuit?

The breakthrough problem calls for a BC band rejection filter. If it were placed 'externally' in series with the built-in low pass filter, the filter could upset the matching of the TX-output to the 50 Ohms load, I suppose.

So I think a BC rejection filter should be placed between the T/R-switching circuitry and the RF preamplifier, which would make it necessary to tamper with the transmitter board... I am thinking of

using the elliptic filter as published in the ARRL-handbook of 1994 on page 30-16. Externally it could be used with other QRP-rigs as well.

Does anybody have any experience with solving these problems that he/she would like to share?

I would be really pleased with any advice I can get in this way. The OHR technical consultation may be free, but overseas phone calls aren't so very cheap.

I'm sorry if anybody was bored by my lengthy story.

73 de OH2ZAZ, ex-PAoSCS
Arjen Raateland
EMAIL: Arjen.Raateland@VYH.FI

From owner-qrp-l@netcom.com Sun Nov 27 21:55:36 1994
Date: Thu, 24 Nov 1994 14:58:04 -0330 (NST)
From: Robert Gobrick <bgobrick@random.ucs.mun.ca>
Subject: OHR WM-1 Power Cut-off
Message-Id: <Pine.3.87.9411241404.A16155-0100000@random.ucs.mun.ca>

Help Requested:

I was just thumbing through the June 94 issue of QST (catching up on my reading) and came across a Product Review of the Nye Viking MB-V-A Antenna Tuner. I thas a neat feature that looks applicable to the Oak Hill Research WM-1 QRP Wattmeter. As owners may recall it is possible to run down the 9 volt battery every time you forget to turn the WM-1 off after use.

The Nyw Vikling unit has a unique 9V battery metering circuit that turns the meter circuit "on" when it "sniffs" RF and turns itself off approximately 1 minute after RF is removed. It also sniffs for high and low RF power and changes range accordingly - What a neat idea.

Does anyone have, or know of someone with one of these Nye units? It would be nice to see the schematic and see if it something that us QRPers could "reverse-engineer" for our private use.

Thanks 72 Bob V01DRB/WA6ERB

Happy US Thanksgiving to all - I brought some donuts into work today and told my Canadian co-workers that Americans use the donuts for stuffing the Thanksgiving Turkey - they all thought that was very a very "American" idea.....

From owner-qrp-1@netcom.com Sun Nov 27 19:30:44 1994
From: JimN00CT@aol.com
Date: Sat, 26 Nov 1994 10:43:39 -0500
Message-Id: <941126104338_7377944@aol.com>
Subject: Oscillators and output

Here is a little exercise for us homebrewers to ponder:

Given an untuned Colpitts oscillator,

Given a fixed feedback and biasing scheme,

Given a fixed output capacitor

Given the active device is a bipolar transistor

And given a fixed frequency (say 10.12 MHz for good luck)

Can one expect to increase the output of such a beast by using a transistor with a very high $f_{sub}T$ --current gain product bandwidth? Granted the output will be low anyway, and the increase might be incremental, and a device with a very high $f_{sub}T$ might need a lot of VHF suppression, would just changing the device from one with an $f_{sub}T$ of 150 to, say gigaHertz do anything??

Tell us your thoughts!!

72 es happy tday weekend, Jim N00CT

From owner-qrp-1@netcom.com Sun Nov 27 19:18:17 1994
Date: Sun, 27 Nov 1994 22:45:31 +0100 (MET)
From: "Willy H. Andersen" <wand@login.dknet.dk>
Message-Id: <81932.wand@login.dknet.dk>
Subject: please subscribe

Please subscribe.

Vy 73 de 0Z4ZT, Willy

From owner-qrp-1@netcom.com Sun Nov 27 08:56:26 1994
Message-Id: <2ed3be52.pandora@pandora.uucp>
Date: Thu, 24 Nov 1994 06:12:33 +0800
From: "W. Daniel 9V1ZV" <pandora!daniel>
Subject: Posting ForSale

One of the things I like most about this list, as compared to r.r.a. groups is that this list is so much more mature in their approach to the radio "hobby" (hobby? who am I trying to kid :-). People here don't flame, they give their opinions, are tolerant and patient, do not have ego problems, dedicated to the hobby and keep their eyes fixed on the QRP rig instead of getting all hot and bothered by minor issues. I'm glad that the responses so far has proved me right! Yayyyy! So my vote goes for posting the sales items, just as long as they don't monopolize the list or outdo the technical and other discussions. If it does, we really have only ourselves to blame. HI HI.

73 de 9V1ZV Daniel

--

```
+-----+
| Daniel Wee | daniel%pandora@csah.com |
| 9V1ZV      | daniel.wee@f516.n600.z6.fidonet.org |
| UUCP1.12j  | Packet: 9V1ZV @ 9V1VS.SGP.AS -- |
+-----+
```

A public-opinion poll is no substitute for thought
-- Warren Buffet --

From owner-qrp-l@netcom.com Sun Nov 27 23:00:02 1994

From: K7YHA@aol.com

Date: Fri, 25 Nov 1994 23:35:47 -0500

Message-Id: <941125233545_7224368@aol.com>

Subject: QRP Headphones on sale!

Radio Shack has their Nova 42 stereo headphones on sale for \$7.99 which is \$5.00 off the regular price. I don't know how long this sale will last, but it is an outstanding price for a great little set of phones. I have used a set for over a year on my ARK-40. They work very well with the NorCal-40 and the NN1G 40-40/30-30 transceivers, also.

This headset features a "mono/stereo" switch and volume control in line with the headset. This allows you to control the volume of the NorCal-40 or 40-40 without adjusting the RF gain control. The mono/stereo switch is useful when you have a rig that has a mono output (you know the kind....when you use stereo phones you only get the audio in your left ear). Flip the switch and you have audio in both phones.

(NO, I don't have stock in Radio Shack.....wish I did, though)

72 rich

From owner-qrp-l@netcom.com Sun Nov 27 18:26:05 1994

Message-Id: <m0rB97s-000EKKC@qb.island.net>

Date: Fri, 25 Nov 94 14:28 PST

From: kwalker@qb.island.net (Ken Walker)

Subject: QRP rig for Maritime Mobile

Last winter I crewed on a yacht delivery to Grenada from South Carolina and took my old Icom 730 and a dipole along. It was fun to be able to work the Maritime Mobile nets for once from the other side. However packing the rig to and from the boat with other gear was a bit of a burden and anyway now it is tied up running the hf port on the packet bbs here. That also means that in my shack I have a triband beam at 100 feet that isn't in use since the packet is running on an 80 m dipole. This winter I may get to do a longer Atlantic trip. So I think I should try my hand at qrp with a rig I can play with here and then take sailing.

There are a number of factors here. One, is that I don't want to come up with the price of a TS50 or something like that. I would like a small rig, qrp makes sense, that I can pack easily. Ideally, the rig, a tuner, an swr meter and the antenna cable would fit in a lunch box. I am game to try and polish up my cw but it would also be good to be able to work 20 meter ssb. Last year I took a 20 meter dipole and strung it up the mast on the topping lift when in use. This meant only setting up on a nice day. I have heard that some have had luck using the whole rig as an antenna. I may try that instead. The boats are usually new and can't be modified in any way.

So, how about some feed back. Any suggestions for a rig? Should I try and put together a qrp kit? Buy a used or new QRP rig? What about a small tuner/swr meter? Buy or build? My bencher paddle wouldn't like boating. Any suggestions there? And what about a keyer, maybe a straight key is the way to go. And what about an antenna? Has anyone tried using the whole rig on a sailboat as a radiator?

Ken Walker Ph 604 752 5766 Amateur Radio Packet Address:
Qualicum Beach, BC Fax 604 752 7172 VE7KGW@VE7KGW.#NVI.BC.CAN.NOAM
Canada Internet: kwalker@qb.island.net On Vacouver Island

From owner-qrp-l@netcom.com Sun Nov 27 22:32:00 1994
Date: Sun, 27 Nov 1994 15:35:53 -1000 (HST)
From: Jeffrey Herman <jeffrey@math.hawaii.edu>
Subject: Re: QRP rig for Maritime Mobile
Message-Id: <Pine.SUN.3.91.941127151555.6093A-1000000@kahuna>

I took a sailboat from Hawaii to California about 10 years ago - the voyage lasted 22 days. I checked into the 20M maritime net daily which provided a *great* comfort; at times they would even provide a phone patch directly to the Weather Service.

What rig you use will be a personal choice, but regarding the antenna I would recommand hoisting a long wire between the top of the mast and the transom (with insulators on each end), and another wire to a keel bolt for ground (thus using the ocean as your counterpoise). The long wire will almost be vertical (well...) so you'll have an

effective ground plane antenna.

I would not recommend using any of the rigging since the mechanical connections are not electrically sound (use your ohm meter to check resistance between two point in the rigging, then shake the rigging and measure again - the resistance will change!).

If you've got an HF marine band radio then certainly take a QRP rig with you; but if your amateur radio gear is the only radio aboard then for your safety make sure it has QRO capability! If you need to call for help you want to make sure you're heard on the first call, for it might be your only call possible.

Jeff NH6IL (ex US Coast Guard CW operator at CG Radio Honolulu: NMO)

P.S. This is sort of off the QRP topic, but if anyone is interested in a 7-part series I wrote about CG communications, and in particular, about the 500 kHz international CW calling/distress freq. let me know and I'll email you the series. It has appeared in several ham club newsletters, and might even find its way into a book someone is writing.

From owner-qrp-l@netcom.com Sun Nov 27 07:15:56 1994
Date: Wed, 23 Nov 94 11:34:06 MST
From: miker@cc.com (Mike Robinson)
Message-Id: <9411231834.AA20761@cc.com >
Subject: qrp tuner

Does anyone have any experience with the qrp antenna tuner from Dan's Small Parts?

7.3 de Michael aa0ub (formerly kd6wdd and kg0ot)
miker@cc.com --==<< I'm the last 'S' in KISS >>==--

From owner-qrp-l@netcom.com Sun Nov 27 02:46:51 1994
From: rohrwerk@holonet.net
Date: Sat, 26 Nov 1994 21:33:38 -0800
Message-Id: <199411270533.VAA14568@holonet.net>
Subject: R2 Audio

On 11-22-94 cfishman@fsac3.pica.army. wrote to qrp-l@netcom.com:

> I am building some R2 receiver boards up an might just not bother with

> the on board audio amp and use an LM383 power amp chip instead. I
> have used the 383 many times and it provides plenty of audio with few
> additional parts....results posted as they come in.
>

Might be OK... and might have more IM distortion than one might like. Depends on your ear.

: John Seboldt rohrwerk@holonet.net / I am Bach of Borg...
: Amateur radio K0JD... / your style will be
: Church of the Annunciation, / assimilated.
: Minneapolis /

-> Alice4Mac 2.3 E QWK Eval:05Mar94

From owner-qrp-l@netcom.com Sun Nov 27 19:56:06 1994
Date: Tue, 22 Nov 1994 13:35:34 +0800
From: Raymond.Anderson@EBay.Sun.COM (Ray Anderson)
Message-Id: <9411222135.AA00912@uranium.EBay.Sun.COM>
Subject: Selling QRP Stuff on the list

Is it OK to post items for sale on the list?

>From what I've seen of the replies to the original question over the past day or so, it would appear that the consensus of opinion (>90%) on the list is that it is OK to post items related to QRP on the list.

Other items, not related to QRP should be posted elsewhere.

Also, it appears that normal netiquette should prevail and all transactions should be taken off-line and dealt with by means of private e-mail or other means.

Sounds like we've beat this question to death. If anyone has any REALLY strong feelings to the contrary speak up, otherwise why don't we consider the question answered?

72's de Ray WB6TPU
raymonda@uranium.ebay.sun.com

From owner-qrp-l@netcom.com Sun Nov 27 21:39:35 1994
Date: Thu, 24 Nov 1994 17:13:24 -0600 (CST)
From: Adrian Weiss W0RSP English Department <AWEISS@charlie.usd.edu>
Message-Id: <941124171324.18622@charlie.usd.edu>

Subject: RE: SELLING STUFF

I agree with the YES gang. This is a "specialty-niche market" and can save a lot of time. Further, I detest reading long lists of ads in the mags etc. looking for QRP stuff. Here, ONLY QRP stuff is listed - or come to think of it, that should be the regulation.

73, Ade

From owner-qrp-l@netcom.com Sun Nov 27 19:15:08 1994
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: Selling the Henry 2K
Date: Sat, 26 Nov 94 12:44:00 EST5EDT
Message-Id: <1994Nov26.124400.3509@wb3ffv.ampr.org>

I have to disagree with WB6TPUs comment about finding somewhere else to sell that Henry 2K linear. I think the QRP list is the perfect place to do it. If you put it on rec.radio.swap, someone will buy it and use it. If you sell it on the QRP list you'd probably get three times as many offers to buy it, and every last one of them would be doing it to get it OFF the market and OFF the air; remember, we're dealing with QRPers here! 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Sun Nov 27 19:31:36 1994
Date: Tue, 22 Nov 94 09:20:57 EST
From: BING HUCKLE WB2SXN <ADMINH10@CLVM.BITNET>
Subject: SICK HW8
Message-Id: <"omnigate.c.984:22.10.94.14.28.25"@clarkson.edu>

The sick HW8 is cured!! I want to thank everyone that provided info on a possible cure - a diode in the hetrodyne circuit was shorted - now where is that darn FOX!!!!

From owner-qrp-l@netcom.com Sun Nov 27 23:09:13 1994
Date: Sat, 26 Nov 1994 11:02:00 -0500 (EST)
From: James Lyons <jlyons@CAM.ORG>
Subject: Sierra
Message-Id: <Pine.SOL.3.91.941126105244.18557A-100000@stratus>

Just finished assembling the sierra and worked VP5VW in the contest in mid-morning, Montreal.

I was reluctant to start assembling the board it was so beautiful in its

pristine condition ... seemed like it would be more appropriate to frame it and use it as a decoration on the shack.

Everything worked as it should and it is definitely the best kit I have ever assembled, including a Heath SB101.

Only confusing item were the remarks about the loudness of the side tone. That is not at all a problem here, quite the reverse. I don't think I've aligned it on the wrong sideband ... can't adjust it to be any stronger than it is ... and in any case I seem to be able to net accurately on another transceiver in the shack though I notice the sierra is on upper sideband whereas my 751A is on lower on CW.

In any event, the bottom line is " a fantastic kit and a great receiver".

My vote is for keeping "for sale" postings.

Doug, I hope you can work something out for the keyer ... count me as a customer. I'm sure you'll make sure the paddle is suitable for /P operation.

72, Jim, VE2KN

From owner-qrp-l@netcom.com Sun Nov 27 12:06:29 1994
From: K7YHA@aol.com
Date: Thu, 24 Nov 1994 21:52:54 -0500
Message-Id: <941124215254_6661124@aol.com>
Subject: Stuff for sale

I vote a "yes", also. This group is not the norm, by any means, and I think the for sale (four sail?) stuff can be managed with out any problems. If we had a bunch of no codes on here, I wouldn't be so optimistic.

72 rich

PS: Where IS Les Shattuck, WN2V. I worked him in the QRP Fall QSO party a few weeks back. Sent him mail and have heard nada from him. (Anybody wanna be president of the ARCI?)

From owner-qrp-l@netcom.com Sun Nov 27 21:56:05 1994
Date: Thu, 24 Nov 1994 15:07:44 -0330 (NST)
From: Robert Gobrick <bgobrick@random.ucsf.mun.ca>
Subject: Super Cmos Keyer II tid-bit

Message-Id: <Pine.3.87.9411241544.B16155-0100000@random.ucs.mun.ca>

While thumbing through the June 94 QST hints and kinks I came across something I must have missed in my prior reading (?). A hint on replacing the audio amp transistor Q2 with an NPN darlington transistor which will reduce current draw (which is already low) from 40 ma to 10 ma in that monitoring circuit. How low can you gooooo..

Good luck - I soon as I find the darlington transistor I'm going to make the change to my unit.

72 Bob V01DRB/WA6ERB

From owner-qrp-l@netcom.com Sun Nov 27 07:32:49 1994
Date: Wed, 23 Nov 1994 13:18:54 -0500 (EST)
From: prvalko <prvalko@vela.acs.oakland.edu>
Subject: Re: The FOX is loose (fwd)
Message-Id: <Pine.3.89.9411231309.C14454-0100000@vela.acs.oakland.edu>

***** ALERT ***** ALERT ***** ALERT *****

I have the blessing from Professor Adams to be the FOX... on
THANKSGIVING MORNING!!!

This is great chance for everyone to bag the fox because most
everyone will be off work. I will also be operating EARLY in the
morning, so there will still be time to go to the parade and
Grandma's house!

I will be on the air from 7:00 AM until 9:00 AM Eastern Standard Time.
I'll spend the first hour (maybe less) on 7.110 and move to 7.040
for the second hour.

73 =paul= wb8zjl

From owner-qrp-l@netcom.com Sun Nov 27 23:43:27 1994
Date: Sun, 27 Nov 1994 07:25:32 -0500 (EST)
From: prvalko <prvalko@vela.acs.oakland.edu>
Subject: Re: The FOX is loose (fwd)
Message-Id: <Pine.3.89.9411270743.B2480-0100000@saturn.acs.oakland.edu>

Gosh... That message only took 4 days to post!

How did my RESULTS get posted before the announcement???!!!

=paul=

From owner-qrp-l@netcom.com Sun Nov 27 23:57:09 1994
Date: Sun, 27 Nov 1994 10:19:22 -0700 (MST)
From: Robert Cutter <bcutter@csn.org>
Subject: Re: The FOX is loose (fwd)
Message-Id: <Pine.3.89.9411271039.A23368-01000000@tea1.csn.org>

Your notice really got lost somewhere...arrived here 11/27 and I check every day.....I wondered what happened when I saw the post of results earlier in the week....72, Bob KI0G

From owner-qrp-l@netcom.com Sun Nov 27 19:46:31 1994
Message-Id: <m0rA3CL-000BaCC@mercury.mcs.com>
Date: Tue, 22 Nov 1994 15:57:08 -0600
From: johnflem@popmail.mcs.com (John Fleming)
Subject: Re:Things for Sale

When I commented no to the for sale thread, I was voting on USED equip., not on new kits, like the 40-40, Sierra, etc. That's exactly the stuff I WANT to see!

I'm just concerned that if we get too many more activities going, the volume might force me to unsubscribe. So far, I'm holding my own, but if my boss happens by again when I'm getting 20 "Caught the Fox..." mail messages, I'll be the caught fox!

John N9NDH

From owner-qrp-l@netcom.com Sun Nov 27 23:26:53 1994
Date: Sat, 26 Nov 94 09:49:06 HST
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Message-Id: <9411261949.AA03138@kahuna.math.hawaii.edu>
Subject: Re: Things for sale

Can we please cease the for-sale debate? You folks are generating a great deal of email to everyone's mailboxes!

As I said last week, qrp-related for-sale ads have been a part of this list since its first week of birth; when you subscribed to here you implied that you accepted this practice. We only see just a few such ads per week so this 'vote' is really unnecessary.

The Boatanchors email list (devoted to older tube radios) can contain up to a dozen sale ads *per day* and no one complains.

Now where's my coffee...

Jeff NH6IL

From owner-qrp-1@netcom.com Sun Nov 27 18:28:55 1994
Message-Id: <199411250457.XAA03854@thor.INS.CWRU.Edu>
From: Stephen Trier <sct@po.cwru.edu>
Date: 25 Nov 1994 04:57:48 GMT
Subject: Three successes

I got the transmitter working. There was one schematic error and two builder errors. It looks like the toroid should be a T37-2, not a T37-6. All other mistakes can be blamed on me. :-)

The tx is putting out ~110 mW output as measured with a 'scope and a 50 ohm load. I haven't worked anyone yet, but I'll keep trying. I'm looking forward to seeing how well this setup works, or if it works at all!

73 and happy Thanksgiving!

Stephen

--

Stephen Trier
sct@po.cwru.edu
KG8IH

From owner-qrp-1@netcom.com Sun Nov 27 20:24:12 1994
Date: Sun, 27 Nov 94 17:12:11 -0600
From: adams@chuck.dallas.sgi.com (chuck adams)
Message-Id: <9411272312.AA04458@chuck.dallas.sgi.com>
Subject: Three Successes by Stephen KG8IH

Stephen,

Thanks for posting your work on the transmitter to the group. I immediately added note to my copy of "W1FB's Design Notebook" page 151 with your name and call for credit.

I think you should write up your experiences and give them to either Doug or send them in to the QRP ARCI Quarterly. It's this kind of stuff that will save a lot of people a lot of headache later on when they try the same thing.

Good job.

dit dit

SIG

Chuck Adams K5FO CP-60

adams@sgi.com

From owner-qrp-1@netcom.com Mon Nov 28 00:19:11 1994

From: NYOUNG@nova.wright.edu

Date: Sun, 27 Nov 1994 19:39:46 -0400 (EDT)

Subject: Til sjoes, datamaskinene og andre daarskaper

Message-Id: <01HJZHAW6SG28WWE2S@nova.wright.edu>

Which means: at sea, computers and other follies

For the swarthy soul who wants to stand watch in the gale, there's this: ANTENNAS: You can use the masts or whatever is vertical, but it's really difficult to get the entire ship to tune. A simple wire duct-taped to the mast might work, but you'll need a tuner. And by the way, remember to hang a wire over the side or fasten it to the gunwales so you have an oceanic counterpoise

RIGS: Ah heck, get one of those beautifully made JRC hand keys (mine cost \$20 about 15 years ago and it's just made for going to sea) and a multi bander and go for it. But....

IF you don't have the money for a TS50, my suggestion is one of the 20m ssb/cw rigs, like the MFJ travel radio (or whatever it's called). Just make sure that you've run it in a while and worked all the bugs out of it. Oh yeah, one last thing: HUMISEAL THE SUCKER! Nothing eats radios like the breath of King Neptune himself.

And in reply to Mike, what the heck is KeyCAD anyhoo?

I have a sample copy of something called TANGO that I've yet to figure out. Supposedly (as the sales guy told me a couple years back) it will turn drawings into circuit boards. In the meantime, I'm still looking for an old piece of software that would puke out diagrams for common HAM/RF stuff like 741 op amp filters and oscillator and transistor amp circuits. I think it did antenna matches too. Been a long time this one it, meester big shot. Now you be paying up not for buying it

And I notice that we have some subscribers from Scandinavia nowadays. Cool. Jeg trodde at jeg var den eneste. Velkommen og ha det bra.

fra _Skipper Worsen_
av Alexander Kielland

```
unsubscribe.
```


From owner-qrp-1@netcom.com Mon Nov 28 00:03:09 1994
Date: Sun, 27 Nov 1994 13:39:25 -0600 (CST)
From: Jeff Gold <JMG@tntech.edu>
Subject: W1AAZ-Ed's homebrew 20m SSB
Message-Id: <01HJZ4ZZ9T5KBTVEBT@tntech.edu>

All,

didn't feel like contesting, so put the Argonaut 509 on 20m SSB. Heard someone calling CQ.. turned out to be Ed P., W1AZZ. He had just finished a small SSB-20m and was checking it out. Had a great long QSO with him. The band was weird and real crowded where he was. Initially I was bad..had my 35 watt amp .. then when he came back to me.. went to 3 watts to his about 5 watts. His rig seemed to have no drift that I could tell. The audio was great. He switched over to his 100 watt Yaesu 840 for a comparison. I could tell no difference between his homebrew and the Yaesu as far as audio goes. His signal was a 57-59 with 5 wattsw and 59->59+20 with 100 watts. He kept asking me if I was being honest about his audio report. Boy was I ever.. I kept begging him to send me the details on the rig.. I want to build one.. he says it will put out about 8 watts or so.

couldn't believe that even designers have no faith in the fact that you can very effectively communicate with QRP/SSB.

boy did that QSO make my morning.

73

Jeff, AC4HF